

ZANZIBAR PROTECTORATE

Medical and Sanitary Report

for the

Year ended 31st December, 1953

Digitized by the Internet Archive in 2019 with funding from Wellcome Library

Medical and Sanitary Report

for the year ended

31st December, 1953

SECTION I.—ADMINISTRATION: GENERAL REVIEW

STAFF

The establishment of senior Medical Staff for 1953 as sanctioned in the estimates was as follows:—

One Director of Medical Services.

One Specialist Officer.

One Pathologist.

Seven Medical Officers (including the Medical Officer of Health).

Three Sub-Assistant Surgeons.

Five Assistant Medical Officers.

Two Dental Surgeons.

One Matron.

One Sister-Tutor.

Ten Nursing Sisters.

One Male Mental Nurse (Superintendent Mental Hospital).

One Sanitary Superintendent.

Two vacant posts of Medical Officer were filled during the year.

- 2. Dr. W. G. Jones-Hughes, proceeded on leave in January, and returned in July, when he took over the duties of Medical Officer of Health.
- Dr. R. H. Purnell, Specialist Officer, proceeded on leave in April and returned in November.

During his absence Dr. G. T. Balean acted as Specialist Officer.

- Dr. R. J. K. Tallack, Medical Officer of Health, proceeded on leave in July.
- Dr. L. J. Miller, Medical Officer, arrived on first appointment in August.
- Dr. A. J. Cunningham, Medical Officer, arrived on first appointment in October.
- Dr. K. D. Young, Medical Officer, who had proceeded on leave in September, 1952, to take the long course for the Diploma of Tuberculosis Diseases at Cardiff returned in December, 1953.

Dr. D. W. Beckett, Medical Officer, proceeded on leave in December.

Miss M. E. Murphy, Nursing Sister, arrived on first appointment in August.

Miss A. Beecroft, Matron, proceeded on leave in May and returned in December.

During her absence Miss M. M. F. Cooke, Nursing Sister, acted as Matron.

Miss M. Rowlinson, Nursing Sister, proceeded on leave in February, and returned in August.

Miss W. Tighe, Nursing Sister, proceeded on leave prior to transfer to Uganda in February.

Miss V. E. M. Allen, Sister-Tutor, proceeded on leave in July.

Miss L. F. Taylor was appointed as Nursing Sister on contract in July.

The award of the British Empire Medal to Mr. Suleiman Mussa, Rural Dispensary Attendant, is recorded with pleasure.

The death in April, of Mr. Mtumwa Zaid, Laboratory Assistant is recorded with regret.

The loyal co-operation during the year of all members of the department is gratefully acknowledged.

TRAINING OF STAFF

- 3. (a) Dr. K. D. Young was successful in obtaining the Tuberculosis Diseases Diploma at Cardiff thanks to the World Health Organisation Fellowship awarded to him in 1952.
- Dr. R. J. K. Tallack was also awarded a World Health Organisation Fellowship and started the course leading to the Diploma of Public Health at the London School of Hygiene and Tropical Medicine.

A locally recruited student was also sent to take a three years' course in Radiography in Bristol at the suggestion of Dr. J. H. Middlemiss, Nuffield Consultant in Radiology, while visiting the Protectorate.

One Assistant Medical Officer qualified at Makerere College during the year and is now doing his two years compulsory internship in Dar es Salaam.

(b) With the co-operation of the Tanganyika Government, five learner Sanitary Inspectors were sent to the Health Training School, Kongwa, at the beginning of 1953 to start the three years' course for the Sanitary Inspectors Diploma of the Royal Sanitary Institute.

This was the first year of the scheme for sending Zanzibar students for training to Tanganyika and it must be stated that they have not all come up to expectations.

One student resigned early in the course, and his place was taken by another student who thus started late and was at some disadvantage for this reason. The results of the first year's work were disappointing. Out of a class of twenty, Zanzibar students occupied 6th, 19th and 20th places.

It is proposed to send five more students in 1954,

(c) The training of nursing staff continued throughout the year although the Sister-Tutor was on leave for much of the time.

In December seventeen candidates sat the final examination for which Tanganyika kindly sent an external examiner. Eleven passed, three were referred for further training and three failed and were discharged.

This was encouraging after the results in 1952.

DISTINGUISHED VISITORS

4. Visitors to the Protectorate during 1953 included the following:— Dr. Alan Mozley, D.Sc., Ph.D, F.R.S. (E).

Dr. J. H. Middlemiss, Director of Radiology, United Bristol Hospitals.

Miss J. McLarty-Nursing Consultant, World Health Organisation.

Dr. Lloyd Rusby, M.A., D.M., F.R.C.P., Nuffield Consultant in Chest Diseases.

Sir Clutha Mackenzie, British Empire Society for the Blind.

Dr. H. Richards, O.B.E., Director of Medical Services, Sudan.

Mr. J. H. Peel, M.A., B.M., F.R.C.S., F.R.C.O.G., Nuffield Consultant in Obstetrics and Gynæcology.

The help and advice given on these visits is much appreciated.

HOSPITALS

- 5. The new hospital in Zanzibar is almost completed, but it will not be possible to occupy it until the A.C. supply of electricity is forthcoming, probably towards the end of 1954. Most of the equipment has now been ordered and the total cost works out at less than £1,000 per bed.
- 6. There has been a steady increase in the work of the hospitals in Zanzibar and Pemba during recent years. The number of in-patients during 1953 was 6,881 compared with 6,160 in 1952.

DISPENSARIES

7. The work of the rural dispensaries continued and expanded. These are sited to serve the major centres of population in the two islands as follows:—

Zanzibar

Kizimbani Mwera
Makunduchi Mkokotoni
Kizimkazi Selem
Chwaka Jambiani
Bweleo

Pemba

Mzambaraoni Fufuni Kinazini Ole Konde Ziwani

Kengeja

Sites for two new dispensaries were chosen at Chongwa and Ukutini Shambani in Pemba and tenders were called for during the year. Work also started on re-building Kengeja dispensary by the villagers themselves with assistance from Government.

The number of patients treated in dispensaries was:—

New cases ... 49,889 Re-attendances ... 80,990

MATERNITY AND CHILD WELFARE

8. These services were maintained. There were 962 confinements in Government hospitals compared with 854 in 1952 (shown in tables on pages 27–29). The Makunduchi Rural Health Unit is proving successful. It is staffed by two midwives and visited weekly by a Nursing Sister. During 1953, 160 women were confined.

RAHA LEO CLINIC

9. In the Ngambo area of Zanzibar town the need for medical attention for school girls and for the female and infant population had long been realised and a dispensary named Raha Leo Clinic was opened on 13th July, 1953. This is situated at the Civic Centre and occupies a permanent building of good design. It has proved popular and successful and relieves the hospital of female out-patients.

The staff consists of one full-time lady doctor, one female trained nurse and one hospital ayah.

From its inception to the end of the year the attendance at this clinic was 3,503.

SCHOOL MEDICAL AND DENTAL SERVICES

10. The Assistant Medical Officer in charge of the School Medical Services continued to carry out school inspections during the year. Medical inspection was also carried out at three grant-aided schools. The total number of children inspected was 977. At the end of each inspection day the cards were handed over to the Headmasters so that the pupils could receive any necessary attention as soon as possible. All children who required medical and surgical treatment were referred to the hospital.

In Pemba as a result of the clove harvest the schools were empty or nearly empty for a large part of the year and the usual examination of school children was therefore impracticable.

The School Dental Service was continued both in Zanzibar and Pemba.

SECTION II.—PUBLIC HEALTH

1. Returns

11. The total number of patients seen at hospitals and dispensaries during the last five years was as follows:—

		1949	1950	1951	1952	1953
New cases		127,816	133,216	130,522	143,090	146,168
In-patients		6,228	6,011	6,533	6,160	6,881
Total Attendances		454,236	304,687	305,597	332,075	254,800
Deaths in Hospital	• • •	376	318	357	370	372

The principal causes of death in hospitals were: -

1.	Respiratory to	abercule	osis	• • •		• • •	• • •	• • •	• • •	26
2.	Malaria	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	20
3.	Other infectio	us and	parasiti	ic disea	ses	• • •	•••	• • •		33
4.	New growths	• • •		•••	• • •	• • •	• • •	• • • •	• • •	10
5.	Anaemias		• • •	• • •		•••	• • •	• • •		23
6.	Diseases of ne	rvous s	ystem		• • •	• • •	• • •	• • •		19
7.	Circulatory di	seases	• • •		•••	• • •	• • •	• • •		30
8.	Respiratory d	iseases	(exclud	ing tub	erculos	sis)	• • •	• • •		52
9.	Alimentary di	seases i	ncludin	g intes	tinal of	bstruct	ion	• • •	• • •	46
0.	Diseases of ge	nito-uri	nary sy	stem	• • •	• • •	• • •	• • •	• • •	21
1.	Diseases of pr	egnancy	and p	uerperi	ium		• • •	• • •		21
2.	Injuries	• • •	• • •		• • •		•••	• • •		27

2. Communicable Diseases

A.—Insect-borne

- 12. Malaria.—8,075 cases were notified during the year and of these 555 were treated as in-patients. There were twenty deaths. The figures for 1952 were 8,647 cases including 499 in-patients and twenty-four deaths.
- 13. Blackwater Fever.—There were six cases during 1953 with two deaths.
- 14. Plague.—There has been no case of this disease for many years, but the Health Department continues the systematic trapping of rats in order to ascertain whether plague is present among the rat population. Daily tests made by the Laboratory proved negative for plague bacilli.

During the year 6,408 rats were trapped giving an average of one rat per house trapped. Traps were set on 177,814 occasions giving a result of 3.55 rats trapped per 100 traps.

- 15. Relapsing Fever.—There were no cases during the year.
- 16. Yellow Fever.—No case of Yellow Fever was detected during the year. The Aedes Index in urban areas remains low.

As a result of a survey of blood sera carried out in 1952, application was made to the World Health Organisation to include Zanzibar Protectorate in the Yellow Fever Endemic Zone, and the validity of inoculation certificates was extended from four to six years.

B.—Infectious Diseases

17. The following table is a comparison of the infectious diseases notified by the Protectorate hospitals for the past five years:—

		1949	1950	1951	1952	1953
Chicken pox		421	131	53	80	75
Diphtheria		4		1	2	
Dysentery-Amoebic	• • •	83	89	49	38	41
Dysentery-Bacillary	• • •	14	34	79	10	9
Erysipelas		1		1	1	2
German Measles			1	-		
Leprosy		20	12	22	17	21
Measles	• • •	37	6	112	61	44
Mumps	• • •	40	34	49	535	35
Puerperal Fever		-	14	8	5	1
Poliomyelitis			1		1	3
Paratyphoid Fever	• • •	-				1
Relapsing Fever		2	1	-	-	
Small-pox			-		1*	-
Tetanus		2		-		
Tuberculosis		168	135	125	106	143
Typhus Fever		-		_	-	
Typhoid Fever		12	11	10	5	1
Whooping Cough	• • •	59	45	16	51	35

*One imported case from India.

The Rural dispensaries do not notify their cases and their figures are not included in this table.

18. Small-pox.—There were no cases reported in the Protectorate although the disease occurred in the neighbouring mainland territories.

Vaccinations were carried out at the Health Office. There were numerous passengers arriving by dhow and other boats from the adjacent territories who were not in possession of valid certificates and in all such cases vaccination was insisted upon.

Passengers arriving on ships and planes have their health documents inspected and those without valid vaccination certificates are vaccinated.

The following vaccinations were performed during the year: -

Zanzibar Pemba	• • •	 21,473 2,402
		23,875

19. Tuberculosis.—Institutional treatment of known cases is carried out at the Zenubbai Karimjee Hospital, Dole, at the General Hospital and, to a lesser extent, at the Walezo Institution.

The total number of beds in use was about eighty, most being filled nearly all the time.

All cases are first admitted to the general hospital for investigations that are impossible to carry out at the Dole Sanatorium. When these investigations are complete, cases that are considered to have a reasonable chance of benefitting from treatment are sent to Dole. They have to return to town from time to time for further X-ray examinations.

A number of cases too advanced for treatment were also sent to the tuberculosis ward at Walezo.

During the year sixty-seven patients were admitted to the Dole Sanatorium for treatment and fifty-two patients were discharged. The number of deaths recorded was three. Six patients left without permission.

In all 416 cases attended government hospitals. Admissions numbered 208 and there were twenty-six deaths.

There were 143 new cases of tuberculosis notified in Zanzibar and forty-two in Pemba. Of Zanzibar cases, ninty-one were from the Zanzibar township and fifty-two from the rural districts.

Clinics were held once a week at the General Hospital in town at which refills were given and old cases seen.

The number of cases attending this clinic was as follows and the treatment given is also shown:—

Pneumo- Artificial Collapse peritonenum Pneumo- Therapy Total thorax								
Males Females		21 7						69 33
Total		28		4		70		102

Close liaison between the Health Office and the Tuberculosis Unit was maintained during the year, including the following up of known cases and collection of contacts for examination.

The District Sanitary Inspectors in Zanzibar township regularly visited all cases in their areas at monthly intervals to ascertain the condition of the patients and any changes of domicile and to ensure that preventive measures were being carried out. Disinfectant was issued for the treatment of infected sputum.

Family contacts of the patients were medically examined for the detection of early infections and the local Welfare Society was informed of all cases to enable their staff to render any assistance found necessary on investigation.

The contacts of notified cases were also brought to the hospital by the Sanitary Inspector. They were examined and X-rayed.

A total of 337 contacts were seen; of these twenty-five were kept under observation for some time but only three were found to require active treatment. This figure is very much lower than would be expected and needs investigation before being accepted as an indication of the incidence of active disease amongst contacts of open cases at a given time.

The nucleus of a tuberculosis service has now been firmly established in Zanzibar; its facilities are used by private practitioners, by Government medical officers, and by the general public.

20. Leprosy.—The Leper Settlements at Walezo (Zanzibar) and Makondeni (Pemba) were maintained as in previous years. The number of patients treated at the two settlements were as follows:—

Walezo

Remaining on 31st December, 1952		 60
Admitted during 1953		 28
Discharged during 1953	• • •	 10
Died during 1953		 5
Remaining on 31st December, 1953		 73

The management of the Walezo Leper Settlement was in the hands of the Roman Catholic Mission and there are now forty-three huts for patients. Those who are capable of working are employed by the Mission and paid an appropriate wage.

During the year two new stone houses for lepers were erected. With these two new ones the Walezo Leprosarium has now been provided with five stone houses which accommodate twenty patients.

The administration of diaminodiphenyl sulphone and dried yeast was continued at doses up to 300 milligram daily with a break of seven days every lunar month, and thirty grains of yeast daily. It was observed that a reduction of the dose of sulphone in some cases was necessary in order to avoid reaction and anaemia.

During the year, inspection showed signs of arrest of the disease in twenty cases, most of which were of the tuberculoid type. It is hoped that the next inspection in 1954 will confirm the good results obtained.

Makondeni (Pemba)

Remaining on 31st December, 1952	 	71
Admitted during 1953	 	20
Discharged during 1953	 	6
Died during 1953	 	3
Remaining on 31st December, 1953	 	82'

The local staff remained unchanged from 1952. Accommodation in the settlement has been increased by six rooms built by the patients themselves during 1953. There is now accommodation for 104 patients and at present there are eighty-two patients in residence.

The administration of the settlement and the physical welfare of the patients have been respectively under the care of the District Medical Officer, Pemba, and a layworker provided by the British Empire Leprosy Relief Association. With his help a great deal has been done to alleviate the condition of the patients. Some of these are employed on menial work in the settlement and are paid from public funds.

During the season, a large area of land was also cultivated by the lepers and a good crop of rice, cassava and sweet potatoes was grown. This extra food was used to augment the patients' rations, and the whole scheme proved to be so popular that it is expected that an even larger area will be put under cultivation next year. The co-operation of the Provincial Administration was generously given whenever necessary, in the form of prisoners, to do the heavy work of clearing the bush before ploughing.

The British Empire Leprosy Relief Association layworker has completed his survey of lepers in Pemba Island and has formed the opinion that there is now less than one-third of the number of lepers estimated by Dr. Ross-Innes, East Africa Inter-territorial Leprologist, who visited the island two years ago.

Three two-roomed houses were built during the year. Accommodation is now considered to be sufficient and no further extension will be needed.

About 90 per cent of the patients were on sulphone treatment. This year is the first time in the history of Makondeni that a patient has been discharged as the result of treatment.

The District Medical Officer visits the colony at least once a week. All patients are seen in rotation as a routine and any cases requiring extra attention are examined whenever necessary.

- 21. Excremental Diseases.—One case of typhoid and one of paratyphoid were notified. Forty-one cases of amoebic dysentery and nine of bacillary dysentery were also notified. Hookworm disease appears no less prevalent than usual.
- 22. Schistosomiasis.—This continues to be detected as a sporadic infection, especially among school children and prisoners. Treatment is given when necessary and efforts made to eradicate vector snails.

VITAL STATISTICS

23. The Medical Officer of Health has continued to act as Registrar of Births and Deaths for Zanzibar town and the recepient of quarterly vital statistics from rural areas. The system of collection of these figures is primitive and the results correspondingly unreliable.

Estimated population	of Za	nzibar	and Per	nba at	
the end of 1952					270,784
Add births		• • •		3,791	
Add immigrants				45,108	48,899
			T	otal	319,683
Deduct deaths				2,233	
Deduct emigrants				39,442	41,675
0					
Estimated population	at end	of 195	i3		278,008
ror					

24. Births and Deaths.—2,108 births and 1,247 deaths were recorded in Zanzibar and 1,683 births and 986 deaths in Pemba.

The birth rate worked out at fourteen per thousand and the death rate at 8.2 per thousand.

- 25. Infant Mortality.—Sixty-four deaths of children under one year were registered. The infantile mortality rate was seventeen per thousand live-births.
- 26. Still-births.—Fifty-three still-births were registered. The still-birth rate was 13.7 per thousand births.

1000

SECTION III.—HYGIENE AND SANITATION

- 27. During 1953 as in previous years, the following measures have been carried out to reduce the prevalence of mosquitoes:—
 - (a) Routine anti-malarial control by clearing of plots and open land, oiling, filling, draining, etc., was carried out over the town area every day. Town refuse is being used to raise the level of a large swamp at Ziwani by controlled dumping.
 - (b) Over 11,000 houses and huts in the town were inspected once a week in order to eliminate the breeding places of mosquitoes. Details of these inspections, results and action taken are entered on daily report forms by the Sanitary Orderlies employed. To discourage slackness and maintain high standards of inspection, inspectors visit all areas to check the work. By this method sixteen breeding places that had been overlooked by the orderlies were discovered.
 - (c) Formerly water connections were made to premises without due regard to drainage facilities, with the result that many mosquito breeding places were found. All new water connections are now referred to the Health Department for recommendation before the connections are made. During the year 168 new water connections were dealt with involving the prior construction of new sullage pits, trapped gullies and sinks and drainage of approved types.
 - (d) In order to ascertain the effectiveness of methods used to destroy the mosquito in the larval stage, special control stations in the township were visited daily for adult mosquito catching. Other control stations were selected in all the sanitary Districts of the Town, and weekly visits made to them for the same purpose. In addition, regular inspections and collections of adult mosquitoes were made in the cells of the Zanzibar Prison.
 - (e) The control of the Culicine mosquitoes is the most difficult problem and although efforts are made to reduce the breeding in the numerous pit latrines in town by oiling, the problem will remain until gradually the conversion of pit latrines to the water-flushed system eliminates the breeding places.
 - (f) The area surrounding the airport at Kisauni has been regularly inspected, and control measures maintained.
- (g) In accordance with suggestions made by the Director of the East African Malaria Unit, adult mosquito catches were made in three rural districts in Zanzibar throughout the year, as a guide to future policy in this matter.

(h) A protective belt extending to a depth of one mile outside the Zanzibar Township boundaries, and running from north to south, was regularly kept under control in order to reduce the number of adult mosquitoes entering the town. Houses situated in a portion of this belt nearest to the town boundaries were sprayed with D.D.T. Results are shown in the tables below:—

Breeding Places Found

			Z	Zanzibar		tective belt
			tc	ownship	outsi	de township
Anophel	es		 	52		55
Aedes		• • •	 	226		116
Culex			 	241		215

Adult Mosquitoes caught in Control Stations

				nzibar vnship		ective be	
Anophel	es		 			16	
Aedes			 	2		34	
Culex			 2	,702		427	
Aedes I	ndex (p	er cent)	 • • •	0.04	• • •	0.4	

LICENSED PREMISES

28. All licensed premises were inspected before the issue of new licences. The co-operation of the Municipal Officer has been of great assistance in carrying out this important work.

Although seventy-eight eating-houses, forty-seven houses-let-as-lodgings, thirty-six laundries, twelve bake-houses, eleven dairies, and five aerated-water factories and shops were inspected, notices were issued when the premises were found to be below the standard required by law.

FACTORIES

29. District Sanitary Inspectors carried out their duties as Inspectors of Factories under the Factories (Supervision and Safety) Decree, 1943, and regularly visited the premises.

GENERAL MEASURES OF SANITATION

- (a) Sewage Disposal and Drainage Improvements in Private Houses
- 30. Slow but gradual progress has been made in converting insanitary pit-latrines into water-flushed closets.

During the year sixty-seven tanks were constructed by private owners, and 151 water-flushed closet pans installed. Five thousand, and sixty-three feet of 4-inch glazed earthenware drain pipes were laid, and 1,388 feet of 4-inch iron soil pipes and 878 feet of 3-inch iron waste pipes were fixed.

In addition the Public Works Department have laid 540 feet of 4-inch drain pipes.

This has enabled forty-nine cesspits and fourteen sullage-pits to be abolished and filled in.

(b) Scavenging and Refuse Disposal

In order to facilitate the collection of refuse in the native location of the town, empty drums were placed in various areas but, as many of these were removed by the residents for other purposes, the drums are now being punctured to prevent such thefts.

Street cleaning has been carried out as in former years. Difficulties were experienced in the latter part of the year due to shortage of labour, which had been attracted to Pemba by the high wages paid there for clove-picking.

During the year 107,451 cart-loads of refuse were removed from six sanitary districts of Zanzibar township, as compared with 110,282 in 1952.

With the exception of refuse burnt at the refuse-destructor, refuse was used for raising the level of low-lying areas by controlled dumping. It was disposed of as follows:—

Hollis Road dump		• • •	4,465	cartloads
Saateni dump	• • •	• • •	30,680	, ,
Saateni refuse-destructor	• • •	• • •	1,140	, ,
Ziwani dump	• • •	• • •	71,166	, ,
			107,451	cartloads

(c) Control of flies

Locally made fly traps were placed on fixed sites in all areas and baited daily. A fly-searcher is also employed in Zanzibar township to destroy any breeding places which may be found.

Number of fly traps used—		
Zanzibar Town		54
Zanzibar Rural Districts	• • •	29
Pemba	• • •	28
Number of fly-breeding places detected —	85.	

(d) Control of rats

Although plague has not appeared in Zanzibar for a very long period, rat control is exercised by systematic trapping in all districts in the Zanzibar township. Daily reports are made by the rat trappers which gave details of the premises where rat traps were set and of the species of rats caught. All rats are inspected at the Health Office and slides of spleen smears were prepared for examination for *B. Pestis* by the Medical Department Laboratory.

In approving plans submitted to the Joint Building Authority an endeavour is made to ensure that all new food stores are adequately rat-proofed.

A summary of the results of trapping rats during the year is shown below:—

Total number of traps set			117,814
Total of rats caught			6,408
Number of slides taken			2,727
Total of houses trapped		• • •	55,739
Average of rats per house trapped		• • •	4 0
Number of rats trapped per 100 traps			3.55%
Species: Rattus			6,364
Other rodents, mice, shrews,	etc.		44

Housing and Town-Planning: Zanzibar Township

31. Building Authority.—The building authorities are constituted as follows:—

Stone Town - District Engineer.
Medical Officer of Health.

Ngambo (Native Location) - District Commissioner (Urban).
Medical Officer of Health.

The volume of work remained very heavy throughout the year and, although its importance is appreciated, it is making such demands on the time of sanitary inspectors that their other work has to suffer.

The Building Appeals Advisory Board, dealing with appeals against decisions of the Ngambo building authority, meets regularly. In the majority of cases the building authority's decisions were upheld.

One thousand, six hundred and seventy-three applications in the Ngambo area were made. Of these thirty-six were the subject of appeal and in only ten cases was the appeal allowed after submission by the Appeal Board to the British Resident.

32: Inspections and recommendations were made in connection with the following applications made to the Joint Building Authority:—

Stone Buildings

Applications with plans: Erection of new buildings Major alterations and additions including	$\begin{array}{c} 1949 \\ 23 \end{array}$	$\begin{array}{c} 1950 \\ 26 \end{array}$	$1951 \\ 14$	1952 28	$\begin{array}{c} 1953 \\ 29 \end{array}$
drainage to existing buildings	115	100	115	125	178
Applications without plans:					
Alterations and additions	266	257	260	261	288
Permits refused	4	5	12	8	10
Notices served for unauthorised works	23	14	12	22	27
Notices served for dangerous structures	190	116	111	124	114
Native-typ	e Buil	dings			
		Ü			
Applications for erection of new huts	. 137	170	296	181	341
Applications for reconstruction and ex-					
tension of existing huts		227	281	345	115
Applications for repairs to existing huts		1,420	1,680	1,245	1,217
Notices served for stoppage of unauthor-		~ .	0.7	00	99
ised works	. 34 . 6	$\begin{array}{c} 54 \\ 10 \end{array}$	61 4	69 5	22 4
Notices served for demolition					

Ruinous or insanitary huts demolished

					1949	1950	1951	1952	1953
Stone Town		• • •	• • •		23		-	1	4
Ngambo	• • •	• • •	• • •	• • •	80	25	16	35	33

In addition to the work involved in checking the plans on the sites during consideration of applications, the District Sanitary Inspectors kept the buildings under observation during construction. Although these regular inspections interfere considerably with other routine duties the work is essential in the interest of general sanitation and improvement of housing.

ZANZIBAR TOWNSHIP COUNCIL

33. The Medical Officer of Health remained an official member of the Council and Chairman of its Public Health Committee. No sanitary services were taken over by the Council in 1953.

TOWN-PLANNING

34. During the year another visit was paid by the Kenya Town-Planning Adviser, Mr. Thornley-Dyer, and later his assistant, Mr. Andrassy, visited Zanzibar.

Layouts were produced for new building estates on land not yet built over and these are still under discussion.

FOODSTUFFS IN RELATION TO HEALTH AND DISEASE

35. All licensed premises dealing with food, such as eating-houses, bake-houses, milk shops and markets were regularly inspected and the necessary improvements effected where necessary. Fifty-eight notices were served in connection with these premises.

Licensed hawkers of food were kept under strict observation and all their utensils had to be approved and stamped by the Health Office staff before use. This work involved the checking of 201 hawkers.

Two hundred and nine samples of milk were taken for chemical analysis. Of these 101 were from town dairies and 108 from milk vendors from the rural districts. In addition, lactometer tests were carried out at the milk depôt, where milk brought from the rural areas is presented for inspection and the sealing of milk cans before sale.

The following table gives details of the samples analysed and of the action taken:—

	Town dairies	M	ilk vendors
	1953		1953
Samples of milk taken	101		108
Samples found adulterated	9		26
Average fat per sample		• • •	4.93%
Average non-fatty solids per sample	8.83%		8.60%
Average of water per sample			2.21%
Warning notices for milk found adul-			, ,
terated with water 4 per cent	7		7
Prosecutions instituted for milk found			
below legal standard	2		15
Convictions obtained	2		15

The following is the list of some of the foodstuffs found unfit for human consumption and condemned during 1953:—

				lb.
Fresh fruits		• • •	• • •	2,838
Meat				1,525
Vegetables		• • •		6,151
Fish		• • •		885
Rice			• • •	41,520
Onions		• • •		15,488
Potatoes		• • •	• • •	7,190
Biscuits	• • •			240
Wheat grain		• • •	• • •	4,055
Sugar	• • •	• • •	• • •	1,000
Wheat flour			• • •	150
Homogenized	Baby	Food		$41\frac{1}{2}$

RURAL SANITATION: ZANZIBAR ISLAND

36. Three trained Sanitary Inspectors were on duty during the year in the following rural districts:—

Makunduchi. Chwaka. Mkokotoni.

They regularly visited the villages in their areas and instituted various measures for the improvement of sanitation and public health.

Mosquito Control

During the inspections a careful search was made for mosquito breeding places, with the following results:—

	A.	An opheles			Culex		
Makunduchi			17		34		12
Chwaka			9		69		gamen
Mkokotoni			1		13		12

The usual preventive measures were carried out including the maintaining of larvæ-eating fish (Gambusia sp.) in large tanks, wells, etc.

Control stations for the collection of adult mosquitoes were arranged in various villages and monthly records were kept of catches made.

Water-Supply

During the year a new water-supply from the Kipange stream to Mkokotoni and Donge villages was constructed by the Public Works Department. This involved the provision of new storage tanks, water-mains and pumps.

All existing wells and tanks were kept under close supervision, and arrangements made for clearance of thick vegetation from the surroundings, for cleaning the wells and water receptacles, and for the repair of broken parapet walls.

Milk Supply

Milk collected in the areas for despatch to Zanzibar was regularly tested by lactometer and such tests have resulted in a considerable improvement in the quality of milk.

Dead Animals

Eight dead animals were found decomposing in various areas and arrangements for their disposal were made.

Infectious Diseases

All notified cases were investigated and detailed reports made. In cases of tuberculosis and leprosy, arrangements were made to send the patients and contacts to the Zanzibar Hospital for examination and necessary treatment.

Vaccination against small-pox was carried out in some of the rural schools.

Swamps

Various swamps were kept under constant observation for mosquito breeding and the snail hosts of schistosoma. In January Dr. Alan Mozley whilst on a visit to Zanzibar inspected a former large swamp at Mbuyuni which had been drained and dried out as a result of previous recommendations made by him.

Six swamps containing snail hosts of schistosoma were treated with copper sulphate three times during the year.

Housing

Sanitary Inspectors gave valuable advice to the villagers on the construction of houses and particularly the provision of good pit latrines.

The erection of huts on a planned layout continued at Chwaka under the general supervision of the Sanitary Inspector.

Eating-houses, Markets and Food stores

All premises were regularly inspected, and instructions given regarding the cleansing of utensils and floors and the protection of food from contamination by flies, dust, etc.

Refuse Disposal

In Chwaka and Mkokotoni villages the refuse is collected by local sweepers and taken to refuse dumps or compost beds.

The refuse from the remaining smaller villages is disposed of by crude tipping into pits and on the seashore. By constant propaganda the villagers are being induced to collect the refuse in heaps to be destroyed by burning where no controlled dumping or compost beds can be properly arranged and supervised.

Fly Control

The standard wooden and wire gauze fly traps were distributed in all areas, and arrangements were made for the baiting and cleansing of them. All fly-breeding places found were satisfactorily dealt with.

Rat Reduction

Rat traps were issued to the villagers when required and they reported the catches when returning the traps.

The number of rats caught during the year was as follows:-

Makunduchi District ... 347 Chwaka District ... 90 Mkokotoni District ... 137

Health Education

During their visits the Sanitary Inspectors gave lectures to the villagers on rural sanitation.

PEMBA

PUBLIC HEALTH IN PEMBA

37. There are Health Offices in the towns of Wete, Chake Chake and Mkoani and also at Konde Village. There was a Sanitary Inspector stationed at Chake Chake and Mkoani throughout the year and at Wete from Janua y to March and from July to the end of the year.

There has been a Sanitary Inspector stationed at Konde since October, and this officer comes into Wete twice a week to assist the Sanitary Inspector there.

Each station except Konde has a sanitation staff. At Konde there is a gang of three labourers who are paid by the Provincial Administration and are loaned to the Health Office.

The villagers of Kengeja and Mtambili each have a small sanitation staff and are under the care of the Sanitary Inspector, Mkoani, who visits them at regular intervals.

Services performed by Health Office, during 1953

				Wete	Ch	ake-Chake		Mkoani
Anti-malarial work on	Swam	ps:						
Bush cleared (sq. yds)				263,275	• • •	20,919		50,905
Trees planted	• • •	• • •	• • •	_	• • •	_		500
Table Passasses								
Mosquito catches:								
Anopheles		• • •		73		692		61
Aedes	• • •	• • •		456	• • •	882		59
Culex	• • •	• • •	• • •	3,262	• • •	1,216	• • •	124
	• • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	3,232	• • •	1,210	***	
Mosquito Breeding place	es fou	and:						
Anopheles	•••			31				24
Aedes		• • •		41	• • •	_		$\overline{27}$
Culex				619	• • •	_		73
outex	• • •	• • •	•••	010	•••		• • •	10
Spraying of Buildings:								
Quarters				21		9		1
Offices and hospital wa		• • •	• • •	$\frac{21}{21}$		5		_
Offices and nospital wa	arus	• • •	• • •	21	• • •	9	• • •	_
General Health:								
Crab holes filled				32,845		603		2,705
	• • •	• • •	• • •	•	• • •			· · · · · · · · · · · · · · · · · · ·
Sullage pits oiled	• • •	• • •	• • •	4,137	• • •	5,620	• • •	1,777
Pools oiled	7 - 7	• • •	• • •	464	• • •	2,889	• • •	340
Anti-malarial drains of	nea	• • •	• • •	0.415	• • •	- OO4	• • •	0.000
Latrine pits oiled	• • •	• • •	• • •	2,417	• • •	5,024	• • •	2,293

18 Zanzibar Protectorate								
Prosecutions: Successful Unsuccessful Withdrawn	$Wete \\ & 35 \\ & 2 \\ & -$	Chake 16 1 2	$Mkoan$ \dots 8 \dots $-$	i Konde – – –				
Sewage Disposal: Earthenware pipes laid (feet W.C. installed Septic tanks constructed Septic tanks and latrine emptied Sullage pits dug) 467 2 8 pits 18 45	1 1	36 – 37 61					
Scavenging: Cartloads of refuse removed	d 15,473	2,183	1,639	1,470				
Bush clearing: Bush cleared (sq. yds)	346,879	20,919		212,312				
Destruction of vermin: Rats destroyed	1,908	1,541	1,107	484				
Animals slaughtered: Bulls Cows Sheep Goats	$\begin{array}{ccc} & 872 \\ & 12 \\ & 211 \\ & 658 \end{array}$	$\begin{array}{ccc} & 560 \\ & 36 \\ & 78 \\ & 435 \end{array}$	$ \begin{array}{ccc} & 103 \\ & 28 \\ & - \\ & 146 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Immigr	ration						
Native vessels arriving at Wete from the Mainland 161 Passengers disembarking therefrom , 870								
Immu	nisation again	nst Yellow 1	7 ever					
During the year 185 persons were inoculated against Yellow Fever. **Immunisation against Typhoid** Eight persons were inoculated with T.A.B. Vaccine.								
Immunisation against Cholera Fifteen persons were inoculated against Cholera.								
	Inspection of	Foodstuffs						
The following were		••						

The following were condemned:—

Onions ... 600 lb. Fish 632 ,, . . . $235\frac{1}{2}$,, Meat Vegetables and Fruit 150 ,, Maize 6 bags Milk 125 gallons

Housing

The following is a summary of the work done	•	
Total number of building applications		536
Applications to build huts		304
Applications to build stone buildings		24
Applications to repair huts		200
Applications to repair stone buildings	• • •	8
Demolitions ordered		28

The above table of services rendered by the Health Offices in Pemba does not take into account, two occurrences which added enormously to the already heavy burden carried by the Sanitary Services. The first of these was the unusually heavy clove crop which resulted in an increase in dirt, promiscuous defaecation and spread of disease. A side effect of the clove harvest was the acute shortage of labour already referred to above which was so bad that, at one time, the sanitation staff were all down to less than half strength and that of Mkoani to quarter strength.

The second occurrence was the exceptionally long and heavy masika rains which caused the storm-water drains to fill with sand and overflow as fast as, if not faster than, the Health Officers were able to clear them. Very large pools were present in the towns for months at a time and bred many mosquitoes. Oiling these was a waste of time as the oil was washed away during the next shower. The swamps were under water for a long time and getting them under control again was not an easy task.

Ambulance Service

The ambulance has given good service throughout the year. It has been necessary to use it for the transport of stores and rations to Makondeni Leper Settlement, the transport of heavy boxes of medical supplies and equipment from Wete Customs Shed to Wete and Chake Chake Hospitals, the transport of officers' luggage on transfer from one station to another and the transport of firewood from Makondeni Prison Camp to Wete Hospital in addition to its proper function of transporting patients. As a result of all this, the condition of the vehicle is not satisfactory.

A new pick-up vehicle was received in Pemba at the end of the year and this will take a great deal of the strain off the ambulance in future.

Pemba Health Advisory Committee

The Pemba Health Advisory Committee was revived during 1953 after having been in abeyance since 1947; three meetings were held.

The Committee did a good deal of valuable work and gave the District Medical Officer much help in some of his problems.

Joint Building Authority, Pemba

The Joint Building Authority controls construction, alterations, and repairs of all buildings in any town in Pemba.

It is composed of the District Commissioner, the Assistant Engineer and the District Medical Officer and the latter is the executive officer of the authority.

Meetings were held regularly at fortnightly intervals except when there was no business to transact.

SECTION IV.—PORT AND AERODROME HEALTH WORK

38. The Medical Officer of Health has continued to be responsible for these services and detailed figures are given later. A tribute must be paid to the sterling work of the Health Inspectors concerned in this work. Their courtesy and punctuality have been admirable.

The following is an indication of the work of those sections during 1953:—

Port

Ships wh	nich	called		 521
Dhows w	vhich	called	• • •	 1,886
Persons	who	arrived	by sea	 32,279
Persons	who	left by	sea	 26,590

Aerodrome

Aircraft	which	h land	led .	• •	 1,693
Persons	who	arrive	d by	air	 12,829
Persons	who	left b	y air		 12,852

During the course of the careful checking of all health documents, the following passengers were found to have arrived either without the necessary vaccination and yellow fever certificates, or their certificates had expired or were otherwise invalid.

Ship passengers ... 273 Air passengers ... 183

Quarantine Station

During the year extensive repairs to buildings were carried out on Changuu Island. As the Mshihiri ward latrine had collapsed a new latrine was built. The Punjabi ward and isolation ward and latrine were also repaired.

The large underground water storage tank in the old jail was thoroughly cleansed, and all the defective portions of the wooden frame work covering the tank were renewed.

New furniture was also supplied to the bungalows.

The routine clearing of bush, filling of depressions, levelling of roads, etc., were performed.

During the year no person was placed in quarantine.

SECTION V.—MATERNITY AND CHILD WELFARE

39. Ante-natal and infant welfare clinics were held regularly in Zanzibar at the Maternity Hospital and in the Rural Districts of Zanzibar at Makunduchi, Mkokotoni, Mwera and Selem. They were also held in Pemba at Wete and Chake Chake.

Figures of attendances during the past four years are shown in the following two tables.

An analysis of the midwifery done at the three hospitals in the Protectorate and at the Rural Health Unit, Makunduchi, is shown in the third table.

MATERNITY AND CHILD WELFARE

Medical and Sanitary Report

٠.
0
linic
.5
His
0
27
Wete
'a
4
-
-
7
emba
7
2
è
d

636 224	098		8,046 318 694	9,058		
287	498		4,347 157 224	4,728	210	103
681	886		6,748	7,767		
233	417		4,527 132 260	4,919	217	73
583	822		6,286 290 878	7,454		
225	379		4,520 111 570	5,201	147	43
448	752		8,659 315 766	9,740		
154	231		3,750 140 248	4.138	∞	99 .
509	699		8,639 256 651	9,546		
131 65	196	linic:	4,116 70 139	4,325	95	42
Ante-natal cases Infant Welfare	Total	Pemba—Chake Chake Clinic:	Out-patients Ante-natal cases Infant Welfare	Total	Wete Maternity Hospital: Total confinements	Chake Chake Hospital: Total confinements

ANALYSIS OF MATERNITY CASES

Maternity Hospital, Zanzibar

Total confinement	İS		 	482
Maternal deaths			 	5
Infant deaths		• • •	 	6
Still births			 	27
Premature births			 	11
Caesarian section			 	5
Forceps deliveries	1		 	20

Maternity Hospital, Makunduchi

Total confinements			• • •	160
Complicated cases train	nsferred	to hos	spital	8

Wete

Total confinemen	ts			 210
Maternal deaths		• • •	• • •	 4
				 9
Still births				 12
Premature births				 14
Caesarian section				 5
Forceps deliveries	5	• • •		 14

Chake Chake

Total confinements			 112
Maternal deaths			 2
Infant deaths			 2
Still births			 10
Premature births	• • •	• • •	 _
Caesarian section			
Forceps deliveries			 6

SECTION VI.—REPORT ON SPECIAL DEPARTMENTS

EYE CLINIC

40. The work of the Eye Clinic still expands but the limiting factor is lack of accommodation.

The Pathologist was in charge of the Eye Clinic during the year. The following are the figures for cases treated:—

New cases					3,659
Re-attendances					14,040
Vision testing ment employ:	`				·
scholarships)			• • •	• • •	522
					18,221
TD (C): (C	1				0.0
Refraction for g		• • •	• • •	• • •	68
Operations maje	or		• • •		79
Operations mine	or				39
Cases admitted		oital			102

SURGERY

41. The following operations were performed at the Zanzibar Hospital during the year:—

Major Operations

Abdominal operations:	•				
Herniotomy	• • •			•'• •	115
Strangulated her				• • •	58
Appendicectomy		• • •	• • •		5
Appendix Absces		• • •		• • •	7
Castro-enteroston		• • •	• • •	• • •	i
Laparotomies	,	• • •	• • •	•••	· , 6
Haparotorinos	• • 5	•••		• • •	
Genito-Urinary:					
	.1				<i>C</i> 4
Hydroceles radica		BS	• • •	• • •	64
		• • •	• • •	• • •	3
Amputation of So			• • •	• • •	8 3
		 of lele de		• • •	
Supra-public drai			aer	• • •	22
Supra-public Pro			• • •	• • •	3
Supra-public Lith			• • •	• • •	4
Other G.U.	•••	• • •	• • •	• • •	-5
~					
Gynae cological:					
Hysterectomy			• • •	• • •	31
Ovariotomy					5
Other Abdominal	l	• • •		• • •	3
Dilatation and Co	urretta	age		• • •	10
Retained placent		• • •		****	2
Caesarian Section				• • •	3
Perineal operation	n	• • •		• • •	1
•					
Ear, Nose and Throat	•				
Tonsillectomy					3
Other	• • •	• • •	• • •	* * *	$\frac{3}{2}$
Other	• • •	• • •	• • •	• • •	4
Eye Operations					68
Ege Operations	• • •	• • •	• • •	• • •	00
Dantal amounting a					
Rectal operations:					
Haemorrhoidecto	$\mathbf{m}\mathbf{y}$	* * *	• • •	• • •	3
Fissures	• • •	• • •	• • •	•••	$\frac{4}{3}$
Fistulae	• • •	• • •	• • •	• • •	3
Other	• • •	• • •	• • •	• • •	1
$Fractures,\ operative:$					
Skull					1
Arms			• • •		4
Legs				• • •	6
Amputations:					
Arms					1
Legs	• • •	• • •	• • •	• • •	3 .
11088	• • •	• • •	• • •	• * •	9
Oslan marsaslam					
Other procedures:					
Mastectomy	• • •	• • •	• • •	• • •	1
Phrenic avulsion	• • •	• • •	• • •	• • •	2
Miscellaneous	• • •		• • •	• • •	57
Injuries	• • •			• • •	3
					520

Minor proceedings:			
Incision of abscesses			161
Injuries of soft tissues			12
Fractures			112
Genito-urinary (sounds	catheters	s, etc.)	325
Miscellaneous	• • •		92
			702
Out-Patient Theatre:			
Incision of abscesses			350
Tapping of hydroceles	• • • • • •		117
Soft tissue injury repair	rs		62
Unclassified			18
			547

LABORATORY, ZANZIBAR

42. The total number of examinations performed in Zanzibar was 38,041 and in Pemba 11,100.

The Laboratory work is summarised briefly as follows:—

Parasitological examinations	• • •	• • •		19,676
Bacteriological examinations				7,357
Serological examinations				2,540
Histological examinations		• • •		15
Medico-legal examinations		• • •		16
Post-mortem examinations				13
General (blood biochemical e	,			8,247
Special (Aschheim-Zondek,	Vet	erinary	etc.)	117
				38,041

Malaria

There was a considerable increase of positive blood films over those of 1951 and 1952. The comparative figures are:—

P. Falciparum P. Vivax P. Malariae	•••		1951 $1,580$ 188 8	•••	1952 891 154 5 135		1953 $1,804$ 275 4 191
Undefined plasmodiae		• • •	$\frac{75}{1,851}$	• • •	1,185	• • •	2,274

The demand from the hospital for crude liver extract, five per cent dextrose solution and normal sterile saline continued. The figures in litres supplied are as follows:—

	1951		1952		1953
Crude liver extract	 173	• • •	175		113
5 per cent Dextrose Solution	 106	• • •	202	• • •	199
Normal Saline	 182	• • •	263	• • •	198

Sterilisation of dressing drums for the hospital, preparation of sterile solutions for the Eye Clinic and the making of dilutions of old Tuberculin "T" for the T.B. Clinic continued as in previous years.

Laboratory, Pemba

	Wete		Chake		Mkoani
Parasitological examinations	4,052		3,240		20
Bacteriological examinations	677	• • •	100		-
Serological examinations	448		133	• • •	_
Medico-legal examinations	_	• • •	_	• • •	
General (blood biochemical etc.)	2,430	• • •	_		_
·					
	7,597	• • •	3,483		20

DENTAL SERVICE

43. Visits to Pemba covered sixty-eight days and the dental services were continued throughout the year.

The following is a summary of the main work carried out by the Department during the year. It does not include patients treated while in hospital for fractured jaws, etc.

	Attendan	ces	Extraction	ns	Fillings		Scalings
Schools	 2,043		278		2,128	• • •	10
Out-patient clinics	 8,481		2,675	• • •	-		-
Other patients	 2,214		415	• • •	767		154

MENTAL HOSPITAL

44. No new building was undertaken at the Mental Hospital. Ninety feet of wall were raised three feet to prevent escapes. The position of two taps was also altered for the same reason.

There is still urgent need for extra accommodation for male patients.

A wireless set was provided from the Nakuru Hospital Sweepstake Gift Fund, also footballs and playing cards, which have been greatly appreciated by the patients.

Very little planting was done during the year. The soil of the grounds is very poor and it is a struggle to keep going any trees that are planted in spite of regular mulching and manuring.

Staff

A qualified female nurse and a qualified hospital attendant were appointed to the Mental Hospital bringing the total qualified nursing staff up to four male and one female. This has meant improved nursing attention for the patients, but there is still need for more qualified staff to bring the nursing attention up to the desired standard.

The following figures show the number of patients treated: -

Remaining on 31st December, 1952							
Admitted during 1953	• • •	83					
Discharged during 1953	• • •	64					
Deaths during 1953	• • •	12					
Remaining on 31st December, 1953	•••	156					

Electro-convulsive therapy was started in November and the staff were trained in its use. Barbiturates are used as sedatives when necessary, but no anaesthesia is used and does not appear to be necessary as a routine procedure.

Twenty-seven patients were started on courses of treatment, but in the cases of three males treatment had to be discontinued.

At present it is too early to state the results of the treatment but there is noticeable improvement in most of the cases treated, particularly in early cases. Old standing cases appear to improve and then remain static or regress.

WALEZO INSTITUTION

45. This institution, which is under the control of the Roman Catholic Mission, has accommodation for (a) the old and infirm (b) tuberculosis patients (c) leprosy patients.

The following figures show the work done during 1953:—

Poor House

Number remaining on 31st December, 19 Admitted Discharged Died Number remaining on 31st December, 19	87 29 53
$Tuberculosis \ Ward$	
Number remaining on 31st December, 19 Admitted Discharged Died Number remaining on 31st December, 19 Leper Settlement	45 17 14
Depet Settlement	
Number remaining on 31st December, 1	952 60
Admitted	28
Discharged	10
Died	5
Number remaining on 31st December, 1	953 73

Prisons

46. Central Prison, Zanzibar.—186 prisoners were admitted as inpatients to the Prison Infirmary during the year and 954 new cases were seen as out-patients. Total attendances numbered 6,972.

Eleven cases of malaria and six cases of venereal disease were treated. Twenty-one cases transferred to the Government Hospital.

The daily average on the sick list was nineteen.

Rural Dispensary attendants at Kizimbani and Selem are in charge of Kinu-cha-Moshi, Langoni, and Kichwele Prison Camps respectively. These are visited once weekly by the Medical Officer in Charge Prisons.

SECTION VII.—FINANCE

47. (a) Expenditure, Health Department

		£
Personal Emoluments		77,655
	• • •	77,000
Other Charges:		
General Stores		4,053
Drugs, Medical Stores and Equipment		21,969
Maintenance of Patients	• • • •	22,419
O T 3	•••	
	• • •	3,071
Miscellaneous Services		18,200
		147,367
(1) 77 70 70 70 10 10 10 10 10 10 10 10 10 10 10 10 10		
(b) Expenditure Municipality		
		£
Personal Emoluments		3,900
	• • •	5,500
Other Charges:		7.7
Equipment and Stores	• • •	117
Sanitation Labour		11,250
		15,267
		10,201
(c) $Revenue$		
		£
Hospital fees and sale of drugs		6,609
	• • •	570
Dental fees		570
Contribution from dependencies towards quarant	tine	
station		1,462
		8,641
		0,041

SECTION VIII.—LEGISLATION AFFECTING THE PUBLIC HEALTH ENACTED DURING THE YEAR

- Government Notice No. 3.—The Births and Deaths Registration (Amendment) Decree, 1953.
- Government Notice No. 4.—The Medical Practitioners (Notification of Deaths) Decree, Repeal Decree, 1953.
- Government Notice No. 44.—The Births and Deaths Registration Rules, 1953.
- Government Notice No. 45.—The Births and Deaths Registration Decree, 1951, (Appointment of Registrar of Births and Deaths for the town of Zanzibar).
- Government Notice No. 111.—Public Health (Appointment of Cemeteries (Amendment) Order, 1953).
- Government Notice No. 29.—The Penicillin Decree, 1948 (Declaration of other substances).

Appendix I

RETURN OF DISEASES: IN-PATIENTS, 1953

C 1	т.	. 37	T				Remaining in Hospital	Total		Remaining in Hospital
Code	L18	st No.	Dise	ases			at end of Dec. 1952	cases	Deaths	at end of Dec. 1953
			General Infection Disc	us and eases	Para	sitic				
001,008	A	1	Respiratory Tube				27	208	26	36
010	A	2	Tuberculosis of M tral Nervous S		s and (Cen-	_	6	4	_
011	A	3	Tuberculosis of I					· ·		
0-0-0-0			neum and Mes				-	_	-	_
012,013	A	4	Tuberculosis of				_	6	1	1
$014.09 \\ 020$	A A	$\frac{5}{6}$	Tuberculosis—all Congenital Syphi			• • •	_	8 7	$\frac{2}{1}$	_
021.0.021.1	A	7	Primary Syphilis		• • •	• • •	_	9	_	_
021,2-021,4	A	7	Secondary Syphil		• • •		_	3	_	_
024	\mathbf{A}	8	Tabes Dorsalis				_	_	_	_
025	\mathbf{A}	9	General Paralysis				_	3	_	_
022,023	A	10	Cardio Vascular					_	_	-
026-029	A	10	All other Syphilis			• • •	_	3	2	_
030,031	A	11	Gonorrhoea, Gen		4/	• • •	_	62	_	_
033 032,034,035	$\frac{A}{A}$	11 11	Gonococcal infect Other Gonococca			• • •	_	$\frac{-}{31}$	_	1
040	A	12	FF1 1 1 7 T3			• • •		2	*****	_
041,042	A	13	Salmonella Infect					1	W-sar	_
043	\mathbf{A}	14	Cholera				_	_	_	_
044	\mathbf{A}		Brucellosis				_	1	_	0-100
045	A		Bacillary Dysente	ery	• • •	• • •	_	5 9	_	1
046	A					• • •	1	74	_	2
047,048 050	A A		Other Unspecified Scarlet Fever	•	v	• • •	2	5	Brown	_
051	$\stackrel{A}{A}$	18	Streptococcal Sor	e Thros			_	6	_	_
052	A	19	Erysipelas		•••		_	_	_	_
053	A		Septicaemia and				_	_	_	_
055	\mathbf{A}		Diphtheria				_	_	_	_
056	A		Whooping Cough				_	1		_
057	A		Meningococcal In		3	• • •	_	_		_
058	A		Plague		• • •	• • •	7.00	<u> </u>	11	150
060 061	${ m A} \over { m A}$		Leprosy Tetanus		• • •	• • •	132	$\frac{54}{6}$	$\frac{11}{4}$	152
062	A		Tetanus Anthrax		• • •	• • •	_	8]	
080	A		Acute Poliomyeli		• • •	• • •	_	ĭ	_	_
082	A		Acute infectious				_		_	none
081,083	\mathbf{A}		Late Effects Pe			and				
0.0.4			Infectious Ence		3		_		-	_
084	A		Variola major		• • •		_	_	_	
084	A		Variola minor		• • •	• • •		1		_
085 091	A A		Measles Yellow Fever	• • •	* * *	• • •	1	4	1_	1
092	A		Infectious Hepati	 tis	• • •	• • •	1	15	3	1
094	Â		Rabies	• • •	• • •		-	_	-	_
100	\mathbf{A}		Louse-borne Epec				_	_	_	_
101	A		Flea-borne Enden				_	_	_	_
104	A		Tick-borne Typhu				-	_	_	-
N.O.S.	A	0.0	0/1 - D: 1 - 1 - 1	T):						
102-108 110	A		Other Rickettsial			• • •	_	- 79	$\frac{-}{2}$	_
111	A A		B.T. Malaria Qt. Malaria	• • •	• • •	• • •	_	26	_	_
112	A		S.T. Malaria	• • •	• • •	• • •	_	279	$\frac{-}{7}$	_ 5
									0.7	
			Car	ried for	ward		164	968	65	200

Code	List	No.	Diseases		Remaining in Hospital at end of Dec. 1952	Total cases	Deaths	Remaining in Hospital at end of Dec. 1953
			Brought forward		164	968	65	200
115	\mathbf{A}	37	Blackwater Fever		_	6	2	_
N.O.S.								
113-117	A	37	Other Forms of Malaria		3	165	9	ev m
123.0	A.	38	Schistosomiasis (haematobium))	-	21	_	_
123.1	\mathbf{A}	38	Schistosomiasis (mansoni)			9	-	_
123.2	A	38	Schistosomiasis (japonicum)	• • •	-	-	. —	_
123.3	A	38	Other Unspecified Schistosomi	asis	_	1	-	_
125	A	39	Hydatid Diseases		_	-	-	
127	A	40	Onchocerciasis	• • •	_	-	-	_
127	\mathbf{A}	40	Loiasis	• • •	_	-	_	_
127	\mathbf{A}	40	Filariasis (bancrofti)	• • •	1	56	2	3
127	A	40	Other Filariasis	• • •	7	6		whomas
129	A	41	Ankylostomiasis	• • • •	1	25	-	_
126	A	42	Tapeworm and other cestode					
130.0	A	42	festation Ascariasis	• • •	_	3	1	pana
130.3	$egin{array}{c} \mathbf{A} \\ \mathbf{A} \end{array}$	42				3	1	-
N.O.S.	A.	44	Guineaworm	• • •	_	_	_	
124-130	A	42	Other diseases due to Helmin	tha		2		_
037	A		The second of the second			4		
038	A		Granuloma Inguinale		_	3	_	
039	A		Other Unspecified Venereal Dise	9 8 8 8	, _	8	MILION .	_
049			Food Poisoning, infective		, –	O		_
049	.A.	#9	toxic (excepting Salmonella					
			fastings		_	_	_	
071	Δ	43	Relapsing Fever	• • •	-			
072		43	Wail'a Diggaggag	• • •	_	_		_
073			T7	* * •	2	49	_	1
087			Objeton	• • •	9	53		î
090			Danagara		-			_
095			The sale area	• • •	_	3	_	
096.7			Sandfly fever	• • •	_	~~~		_
120			Leishmaniasis		_	_	_	_
121.0			Trypanosomiasis (gambiense)	• • •	_	_	_	
121.0			Trypanosomiasis (rhodesiense)		_	_		_
121.2			Other Unspecified Trypanoso					
			miasis		_	_	_	_
131	\mathbf{A}	43	Dermatophytosis (Tinea)		_	_	_	_
135.			Scabies		1	24	nime.	
N.O.S.								
036 - 122	A	43	Other infectious and protoz	oal				
			diseases		-	1	-	stream
N.O.S.								
132 - 138	\mathbf{A}	43	Other Parasitic Diseases	• • •	_	6		1
7.40.7.40			New Growths	7				
140-148	A	44	Malignant Neoplasm Mouth a	and				
1 20		. ~	Pharynx		ф-холч		-	_
150	\mathbf{A}	45	Malignant Neoplasm of Oe					
1 ~ 1		4.0	phagus		—	-		_
151	A		Malignant Neoplasm of Stoma		_	2	-	- ·.
152,153			Malignant Neoplasm of Intestin		_	-		
154			Malignant Neoplasm of Rectu		_	1	_	-
161			Malignant Neoplasm of Laryn		,pen	-		_
162,163	\mathbf{A}	50	Malignant Neoplasm of trach					
			bronchus and lung not specif			7		•
150	A	~ 7	as secondary		-	1	_	
170	A	51	Malignant Neoplasm of breast			1		Mercal
171	A	52 .	Malignant Neoplasm of cer	V1X		1		
			uteri		_	1	_	
			Carried forward	• • •	181 1,	419	79	206
			Catried for ward	• • •	101 1,	210	10	200

			Diseases	at end of Dec. 1952	cases	Deaths	at end of Dec. 1953
7 0 7 1			Brought forward		1.413	79	206
172-174	A	53	Malignant Neoplasm of other un- specified parts of uterus		2 ,	_	_
177	\mathbf{A}	54	Malignant Neoplasm of prostate) —	5	1	_
190,191	A	55	Malignant Neoplasm of skin		2	_	1
196,197	\mathbf{A}	56	Malignant Neoplasm of bone and	Į.			
NT O G			connected tissue	_	4	1	_
N.O.S.	Λ	57	Walion and Manualana C. II 11				
155-199	A	57	Malignant Neoplasm of all other and unspecified sites		1.0	4	
204	A	58	Leukaemia and Aleukaemia		12	4	_
200-203,205	A		Lymphosarcoma and other neo-			_	_
			plasm of lymphatic and haema-				
			topoietic systems			_	_
210-239	A	60	Benign Neoplasms and unspecified				
			neoplasms	_	88	4	5
			Allergic, Metabolic and Blood Diseases				
250,251	A	61	Nontoxic goitre	-	_	_	_
252	A	62	Thyrotoxioasis		3	_	
260	A	63	Diabetes Mellitus		19	1	
280	\mathbf{A}		Beriberi		2	_	_
281	A		Pellagra	_	_	_	_
282	A		Scurvy			_	_
286.6	A		Kwashiorker	_	3	1	_
283-286	A		Other Deficiency States		20	2	-
290	A	65	Pernicious and other hyperchromic		hery		
291	A	65	anaemia		7	1.4	-
292,293	A	65	Iron deficiency anaemias Other anaemias	_	53 40	14 9	4
241	A		Asthma		30	9	2
N.O.S.	A		Other allergic endocrine, metabolic		30	_	1
240-299			and blood diseases	_	11	1	1
			Diseases of Nervous System and Sense Organs				
300-309	A	67	Psychoses	149	83	12	156
310-324,326	A	68	Psychoneuroses and disorders of				
			personality		4	h-Manag	1
325	A		Mental deficiency		3		—
330-334	A	70	Vascular lesions affecting central	-			
3.4.0	4	77.1	nervous system	Ĭ.	5	Ē	_
340	A	71	Meningitis (except meningococcal		E	5	
345	A	72	and tuberculous) Multiple sclerosis		5	Э	_
353	A		Epilepsy		4	1	_
370-379	A		Inflammatory diseases of eye	1	18	_	$\overline{2}$
385	A		Cataract	0	21	_	_
387	A		Glaucoma		1	_	_
390	A		Otitis externa	1	3	_	_
391-383	A		Otitis media and mastoiditis		15		1
394	A		Other inflammatory diseases of ear		7	-	-
N.O.S.	A	78	All other diseases of nervous				
341-369			system, sense organs and audi-		20		
395-398	A	70	tory system		23		-
N.O.S.	A	18	All other diseases and conditions of eye	1	21		
1711- 4761			or eye	1	21		
380-389							

Code	List No		Diseases		Remaining in Hospital at end of		Deaths	Remaining in Hospital at end of
Code	LIBO IVO	· •	121800000		Dec. 1952	Casos	Downs	Dec. 1953
			Brought forward Circulatory Diseases	d	354	1,931	136	380
400-402	A 79	Rheur	natic Fever	• • •	_	3		_
410-416	A 80		c rhuematic heart dise			1	_	
420-422	A 81	hear	scierotic and degenerated in the disease	rative	-	1	_	-
430-434 $440-443$	A 82 A 83		diseases of heart		9	$\frac{34}{2}$	8	_
444-447	A 84	Hyper	tension with heart d tension without menti	ion of			-	_
450-456	A 85	hear Disease	t es of arteries	• • •	_	$\frac{2}{6}$	1	$\frac{-}{2}$
460-468	A 86		diseases of circulator			· ·	-	-
		stem	•••	•••	_	62	21	
			Respiratory Diseases					
470-475	A 87		upper respiratory infe	ctions	1	33	2	_
480-483	A 88	Influen	za	• • •	-	33		numps
490	A 89		pneumonia	• • •	9	321	30	5
491	A 90 A 91		opneumonia	 J. 110	_	112	14	2
492,493	A gi		y atypical, other and fied pneumonia	u un-	_	11	_	_
500	A 92		bronchitis		_	$5\overline{2}$	-	_
501,502	A 93		itis, chronic and unqua			17	-	_
510	A 94	Hypert	crophy of tonsils and			1.0		
518,521	A 95		s oma and abscess of lun		1	18		
519	A 96		y		_	27	1	
523	A 97	Pneum	oconiosis	• • •	_		-	
N.O.S. 511-527	A 97	All oth	er respiratory disease	a	3	52	5	1
011-021	A U		Alimentary Diseases	s	J	04	Ð	. 1
530	A 98	Dental			_	2		
531-535	A 98	All otl	ner diseases of teeth			_		
~ 10	4 00	supp	orting structures	• • •	$\frac{2}{2}$	17	_	1
$540 \\ 541$	A 99 A 100		f stomach f duodenum	• • •	1	10		-
543	A 100		is and duodenitis	• • •		$7 \\ 13$	1_	_
550-553	A 102	Append		• • •	_	$\frac{13}{23}$	1	- Charles
560,561,570		Intesti	nal obstruction and h		10	372	19	17
571.0	A 104		enteritis and colitis n 4 weeks and 2 year			11	4	
571.1	A 104	Gastro-	enteritis and colitis, a	$ ext{ges } 2$		11	4	
		year	s and over		1	53	4	_
572	A 104	Chronic	e enteritis and ulcer			10	1	
581	A 105		· C T'	• • •	1	$\begin{array}{c} 12 \\ 16 \end{array}$	$1 \\ 5$	$\frac{-}{3}$
584,585			thiasis and Cholecysti		_	4	$\frac{3}{2}$	- -
536-587	A 107		diseases of digestive sy		7	136	9	2
		G	enito-Urinary Diseases					
590	A 108		nephritis	• • •	_	5	2	4
591-594	A 109	Chronic	e, other and unspe-					-
600	A 110		ritis	• • •	2	4	1	1
$600 \\ 602,604$	A 110 A 111	Calculi	ons of kidney of urinary system	* * *	_	$\frac{1}{6}$		-
610	A 111	Hyperr	plasia of prostate			$\frac{6}{12}$	$rac{1}{2}$	
620,621	A 113	Disease	s of breast	• • •	_	11	_	_
613	A 114	Hydrod	ele	• • •	4	162	_	1
634 N.O.S.	A 114 A 114		er of Menstruation			12	1	2
601-617	A 114		diseases of genito-uri m and male genital or		10	200	14	7
			Carried forward	ł	415	3,807	285	428

Code	List No.	Diseases	Remaining in Hospital at end of Dec. 1952	Total cases	Deaths	Remaining in Hospital at end of Dec. 1953
N.O.S.	A 114	Brought forward Other diseases of uterus and fe		3,807	285	428
622-637	2114	male genital organs		125	-	3
640-641,	A 115	Diseases of Pregnancy Puerperiu Sepsis of pregnancy, childbirth and		,		
681,682,684 642,652,	A 116	the puerperium Toxaemias of pregnancy and the	. –	project.	_	-
685,686 $643,644$	A 117	puerperium	. –	12		_
650		childbirth	. –	1	_	-
	A 118	Abortion without mention of sepsi- or toxaemia		52	1	source
$\begin{array}{c} 650 \\ 660 \end{array}$	A 119 A 120	Abortion with sepsis Delivery without complication		$\begin{array}{c} 9 \\ 427 \end{array}$	- 1	$\frac{-}{16}$
N.O.S. 645-689	A 120	Other complications of pregnancy childbirth and puerperium	,	62	19	3
		Skin and Musculo-Skeletal				
690-689	A 121	Diseases Infections of skin and subcuta	•			
		neous tissue	. 15	275	6	9
$720-725 \\ 726,727$	A 122 A 123	Arthritis and spondylitis Muscular rheumatism and rheu		52		1
730	A 194	matism unspecified		13		-
737,745,749	A 124 A 125	Osteomyelitis and periostitis Ankylosis and acquired musculo		8	1	_
715	A 126	skeletal deformities Chronic ulcer of skin	0.0	$\frac{1}{674}$	_ 1	$\frac{-}{40}$
700-714,716	A 126	All other diseases of skin	. 2	128	$\overset{1}{2}$	-
731-736, 738-744	A 126	All other diseases of musculo skeletal system	79. 4	62	3	
751 754	A 127 A 128	Spina bifida and meningocele Congenital malformations of cir		_		-
	A 120	culatory system		2	Norphi	-
N.O.S. 750-759	A 129	Other congenital malformations	. 1	4	1	
760 761	4 120	Diseases of Newborn			7	
760-761 762 764	A 130 A 131 A 132	Birth injuries Postnatal asphyxia and atelectasi Diarrhoea of newborn (under	s –		-	within
		weeks)	. –	_	_	
765 763,766,768	A 132 A 132	Ophthalmia neonatorum Other infections of newborn		$\frac{2}{1}$	_	_
770 769,771,772	A 133	Haemolytic disease of newborn All other defined diseases of early		_	proper	-
105,111,112	A 104	infancy		_	_	_
773,776	A 135	Ill-defined diseases peculiar to early infancy, and immaturity unqualified			-	-
F O.4		Ill-Defined Diseases				
794	A 136	Senility without mention of Psy chosis	0	31	11	1
788.8 793	A 137 A 137	Pyrexia of unknown origin Observation, without need fo	. 2	148	8	1
N.O.S.	A 137	further medical care All other ill-defined causes of		20	-	1
780-795	21 107	morbidity	1.6	17	_	
		Carried forward .	508	5,933	346	503

Code List No.	Diseases	Remaining in Hospital at end of Dec. 1952	l Total cases	Deaths	Remaining in Hospital at end of Dec. 1953
	Injuries	508	5,933	346	503
N800-N804 AN 138	701		4	1	
N805-N809 AN 139	701 / 0 1 1 1	3	$4\overline{3}$	7	2
N810-N829 AN 140	77	4	95	3	$\overline{6}$
N830-N839 AN 141	T) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11	ĭ	
N840-N848 AN 142	Sprains and strains of joints ar			*	
110101011011111111	7	<u>-</u>	20		-
N850-N856 AN 143	Head injury (excluding fractur		10	1	1
N860-N869 AB 144	Internal injury of chest, abdome		2. 0	-	~
1,000 1,000 113 111				_	_
N870-N908 AN 145	ar it is a	8	156	2	7
N910-N929 AN 146	Superficial injury, contusion as		200	_	
	crushing with intact skin surfa		67		
N930-N936 AN 147	Effects of foreign body entering	-	0.		
11000 11000 1111 111	13 1 10		5	_	
N940-N949 AN 148	D	3	49	7	1
N960-N979 AN 149	T100	–	10	$\dot{2}$	_
N950-N959 AN 150	All other and unspecified effect		2.0	_	
N980-999	of arrhamal aggrega		478	3	4
	Total	527	6,881	373	524
		-			

N.O.S. means "Not Otherwise Specified", i.e. N.O.S. 102-108 means all other diseases included between these numbers in the International Classification to be entered in this line if not otherwise specified in any line elsewhere.

RETURN OF DISEASES: OUT-PATIENTS, 1953

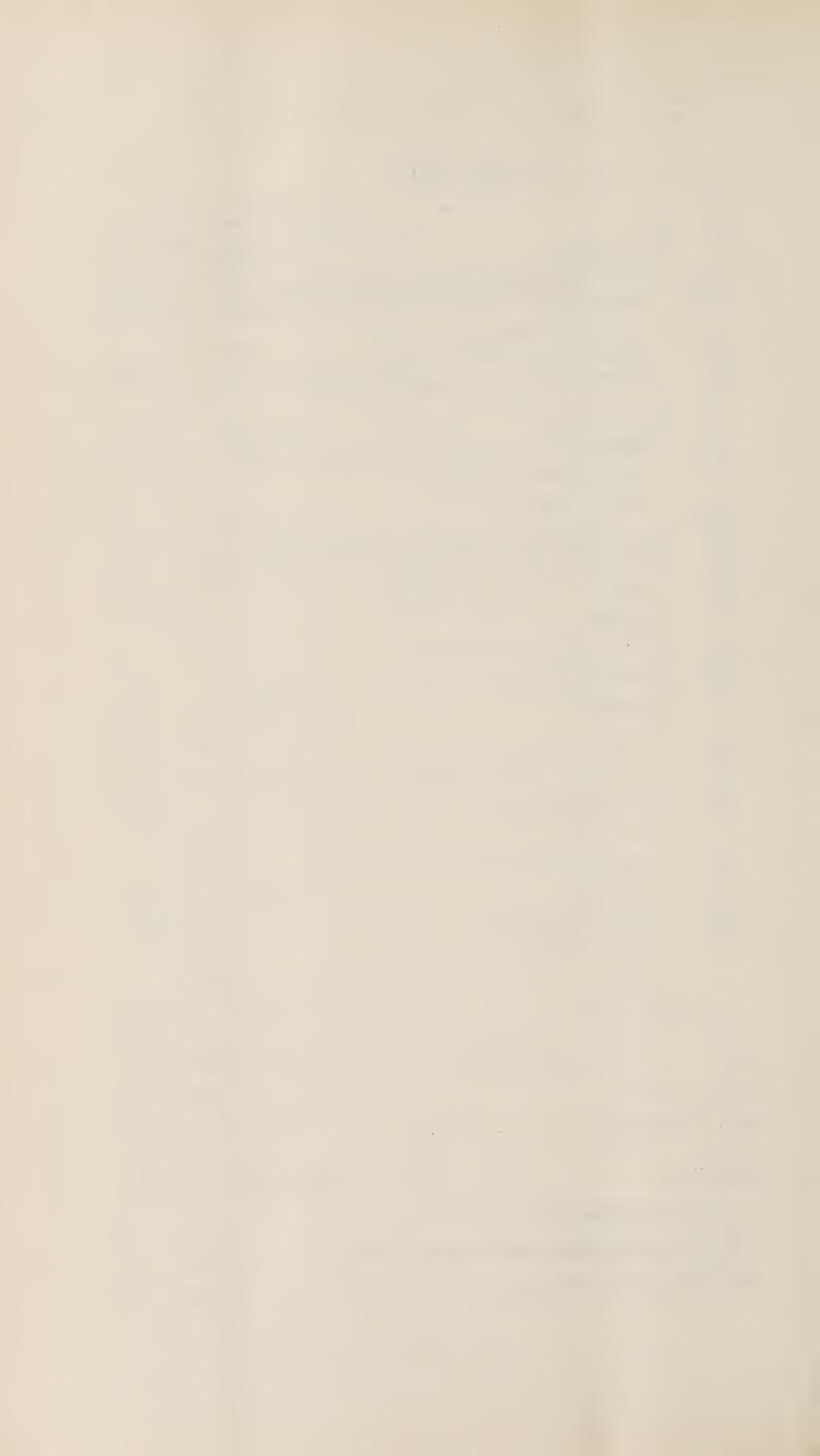
Code			Diseas	е				
	Infect	tious and	d Para	sitic Di	seases			
001-008	Respiratory Tube	erculosis		• • •		• • •		214
010-019	Other Tuberculos	is	• • •					22
020 - 029	Syphilis	• • •				• • •		901
030-035	Gonorrhoea			• • •				1,550
036-039	Other Venereal D	iseases				• • •		658
045	Bacillary Dysente	ery				• • •		323
046	Amoebic Dysente	ry				• • •		68
055	Diphteria			• • •				2
056	Whooping Cough							167
057,340	Meningitis (Exclu	iding Ti	ıbercu	losis)				gament
058	Plague							
060	Leprosy			• • •				24
061	Tetanus	• • •						5
062	Anthrax	• • •				• • •		
071	Relapsing Fever		• • •			• • •		
073	Yaws							11,133
080	Acute Poliomyeli	tis						6
084	Variola major							
084	Variola minor							1
085	Measles							178
086	Rubella			• • •				4
087	Chicken Pox							113
089	Mumps					• • •		200
092	Infectious Hepati	tis				• • •		523
095	Trachoma		• • •			• • •		26
110	B.T. Malaria			• • •		• • •		1,050
111	Qt. Malaria							782
112	S.T. Malaria		• • •					3,942
113-117	Other forms of M							2,299
115	Blackwater			• • •				2
121	Trypanosomiasis					• • •		
123.0	Schistosomiasis (l		,	• • •		• • •		1,217
123.1	Schistosomiasis (1	mansoni	i)					98
126	Tapeworm	• • •	• • •			• • •		27
127	Onchocerciasis	• • •	• • •			• • •	• • •	
129	Ankylostomiasis	• • •						8,729
130.0	Ascariasis		• • •				• • •	331
131	Tinea		• • •		• • •		• • •	233
135	Scabies		• • •	• • •	• • •	• • •	• • •	2,951
N.O.S.								4-0
036.138	Other infective an	nd paras	sitic di	iseases		• • •	• • •	473
		2.00	~	. 7				
140 005	21.42 3.1		w Grov					0 100
140-205	Malignant Neopla		• • •	• • •	• • •		• • •	87
210-239	Benign and other	· Neopla	ısms	• • •		• • •	• • •	368
	4 77 *	711 . 7	7 •	7 777 7	m •			
0.41	Allergic				Disea	ses		000
241	Asthma	• • •			• • •	• • •	• • •	928
286.6	Kwashiokor	• • •	• • •	• • •	• • •		• • •	= 00=
290-293	Anaemia	* * *	* * *	* * *	• • •	• • •	• • •	5,295
N.O.S.	0.11 11 1	3		1 1 11			1	
240-299	Other allergic, e		ie, me	etabolic	and	nutritio	onal	097
	diseases		• • •	• • •	• • •	• • •	• • •	837
	7):	77	Quet	200 -7 0	2000 0 - (Jana		
200 200	Diseases of		-					17
300-326	Mental Disorder	• • •					• • •	6
353	Epilepsy						···	
N.O.S.	Other diseases of	tne ne	rvous	system	ana s	ense org	gans	1,142
330-369								
				Co	miod f	orward		46,932
				Cal	illeu I	orward	• • •	10,002

Zanzibar Protectorate

Code	Disease									
		Br	ought fo	orward	• • •	46,932				
370	Conjunctivitis and Ophthalmia	• • •	• • •	• • •	• • •	4,026				
373	Stye	• • •	• • •			75				
389	Blindness	• • •		• • •		13				
N.O.S.										
371-388	Other diseases of eye (not trach		• • •	• • •	• • •	631				
390-398	Diseases of ear and mastoid pro	cess	• • •	• • •	• • •	2,952				
400 445	Circulatory D		3			0=				
400-447	Diseases of the Heart	• • •	• • •	• • •	• • •	97				
450-468	Other Circulatory diseases	•••	• • •	• • •	• • •	602				
	Rasninatom, D	n'ang ang								
490-493	Pneumonia Respiratory D	rseuses				762				
N.O.S.	Other diseases of the respira	tory		(includ		102				
470-527	coryza, pharyngitis and brone					14,866				
110 021	ooiy 200, parony ng 1010 wild. Of one	ominos	* * *	•••	• • •	11,000				
	A limentary D c	is eases		•						
530	Dental caries					8,248				
538	Stomatitis and other diseases of					1,303				
560-561,570	Intestinal obstruction and herni	ia	• • •			581				
571.0	Gastroenteritis under 2 years				• • •	564				
571.1	Gastroenteritis over 2 years					1,599				
N.O.S.										
537 - 587	Other Diseases of Digestive Sys	tem	• • •	• • •	• • •	7,844				
	, , , , , ,									
010	Genito-Urinary					000				
613 N. O. S.	Hydrocele					686				
N.O.S.	Other diseases of genito-urinary	systen	n and n	naie gen	ıtal	1 000				
$\begin{array}{c} 590\text{-}617 \\ 636 \end{array}$	organs	• • •	• • •	• • •	• • •	1,906				
N.O.S.	Sterility (female)	• • •	• • •	• • •	• • •	44				
620-637	Other diseases of uterus and fer	male m	anital c	mane		1,737				
020-007	Normal pregnancy	g	•••		• • •	1,448				
650-652	Abortion	• • •	• • •	•••	• • •	42				
N.O.S.		•••	•••	•••	• • •	1.2				
640-689	Other diseases of childbirth		• • •			10				
Skin and Musculo-Skeletal Diseases										
690-698	Boils, and infection of skin and	subcu	taneous	s tissue		6,315				
715	Chronic ulcers		• • •	• • •		10,226				
N.O.S.										
700-716		• • •		• • •	• • •	7,332				
720-759	Diseases of bones, joints, muscl	es and	malto	rmation	• • •	4,858				
Ill-Defined Diseases and Injuries										
760-776	Neonatal diseases					713				
788.8		• • •		• • •	* * *	7,152				
N.O.S.	I ylexia of unknown origin	• • •	•••	• • •	• • •	1,102				
780,795	All other ill-defined causes of m	orbidit	v			1,634				
N800-N839	Fractures and dislocations	• • •	• • •	• • •		253				
N840-N848	Sprains	• • •		• • •		363				
N930-N936	Foreign bodies	• • •	• • •			171				
N940-N949	Burns and Scalds		• • •			571				
N960-N979	Poisoning		• • •	• • •		4				
N.O.S.										
N.850-N999	Other injuries and wounds		• • •			8,103				
Y00-Y18	Examinations	• • •	• • •		• • •	1,505				
				m		1.40.70				
				Total	• • •	146,168				
Do attendence										
Re-attendance										
			Grand	Total		400,968				
			Grano	Loual	• • •	±00,008				

CONTENTS

1.	Administration:				PAGE
	Staff: Staff Appointme	ents. Resi	gnations		1
	Honours and Awards,				3
	FTT	• • •			4
	Hospitals and Dispens	aries			4
	School Medical and D	ental Ser	vices		6
II.	Public Health:				
	Returns				6
	Communicable Diseases				6
	Vital Statistics				11
III.	Hygiene and Sanitation:				
	Mosquito Control Measure	sures			11
	Sewage and Refuse Di				12
	Housing	•			13
	Pemba Health Service	S			14
ΤV	Port Health Work:				
11.	Zanzibar				15
	Pemba				16
V.					16
	V				10
VI.	Special Departments:				1.77
	Eye Clinic	• • •	• • •		17
	Surgery Laboratory	• • •	• • •	• • •	$\frac{17}{17}$
	Laboratory Dental Department		• • •		18
	Mental Hospital		• • •		18
	Walezo				19
	Miscellaneous:				
	Prisons				20
	Departmental Transpor				20
VII.	Finance	• • •	• • •	• • •	20
III.	Legislation	• • •	• • •		21
ppenc	lices:				
I.	Tuberculosis Unit				21
II.	Maternity and Child We	elfare Ret	turns		26
III.	Return of Diseases				28
the same of the same of					



OFFICE OF THE

DIRECTOR OF MEDICAL SERVICES,

HEALTH DEPARTMENT,

ZANZIBAR,

25th February, 1955

Sir.

I have the honour to submit for the information of His Excellency the British Resident and for transmission to the Right Honourable the Secretary of State, The Medical Report on the Health and Sanitation conditions of the Zanzibar Protectorate for the year 1954.

I have the honour to be,

Sir,

Your obedient servant,

R. H. PURNELL,

Acting Director of Medical Services,

Health Department

THE HONOURABLE

THE CHIEF SECRETARY TO THE GOVERNMENT,

ZANZIBAR.

